

I Claim:

1. A heavy duty weigh scale comprising:
  - a weighing platform constructed of parallel and spaced apart I-beams, each I-beam having a web extending between an upper and a bottom flange;
  - at least one stand supporting an I-beam of the platform carrying the platform above ground;
  - each stand having a base plate and a pair of spaced apart upright supports of approximately the same length, the upright supports being spaced apart sufficiently to receive the bottom flange of said I-beam supported by the stand;
    - the I-beam supported by the stand includes a cut-out through the web, which cut-out opens into a slot in the bottom flange, the slot extending beneath the cut-out and parallel with the web of said I-beam;
    - a weight-transfer link having an opening therethrough;
    - the weight-transfer link sized to fit within the cut-out and slot provided in said I-beam supported by the stand;
    - the weight-transfer link positioned within the cut-out and slot provided in said I-beam with the opening of the link

extending above the bottom flange into the cut-out through the web and also extending below the slot provided in the bottom flange;

a double-ended shear beam load cell positioned through the opening of the weight-transfer link above the bottom flange, and having each end resting on a respective upright support of the stand; and

an elongate pin positioned through the opening of the weight-transfer link below the load cell and below the slot in the bottom flange of the said I-beam supported by the stand, the pin having a length greater than the transverse dimension of the slot.

2. The weigh scale of claim 1 further including a brace fixedly secured to the upper and bottom flanges of said I-beam supported by the stand, the brace positioned adjacent the cut-out provided in the web of said I-beam.

3. The weigh scale of claim 1 further including a pair of spacers fixedly attached to a lower side of the bottom flange on either side of the slot provided in said I-beam supported by the stand and positioned to abut the pin positioned in the opening of

the weight-transfer link.

4. The weigh scale of claim 3 wherein both the load cell and the pin each have a circumferential groove intermediate the ends to receive the weight-transfer link in each of these circumferential grooves.

5. The weigh scale of claim 4 further including an upper wear-resistant member fixedly secured adjacent the upper end of the opening provided in the weight-transfer link, the upper wear-resistant member positioned within the circumferential groove on the load cell, and a lower wear-resistant member fixedly secured adjacent a lower end of the opening provided in the weight-transfer link, the lower wear-resistant member positioned within the circumferential groove on the pin.

6. The weigh scale of claim 5 wherein one of the upright supports of the stand has a hole therethrough which is sized to permit the pin to be inserted through this hole into the weight-transfer link opening.